



Contents of Volume 99

No. 1, January 1995

| | |
|--|-----|
| Editorial | 1 |
| Frontiers review | |
| <i>J.H. Widdicombe and J.G. Widdicombe (UK): Regulation of human airway surface liquid</i> | 3 |
| Research articles | |
| <i>M. Satoh, M. Yamaya, S. Shimura, T. Masuda, M. Yamamoto, T. Sasaki, H. Sasaki and K. Shirato (Japan): Isoproterenol augments ATP-evoked Cl^- secretion across canine tracheal epithelium</i> | 13 |
| <i>M. Takahashi, A.N. Freed and T.L. Croxton (USA): Scaling of transepithelial potential difference in the mammalian trachea</i> | 19 |
| <i>C. Delacourt, E. Canet, J.-P. Praud and M.A. Bureau (Canada): Influence of vagal afferents on biphasic ventilatory response to hypoxia in newborn lambs</i> | 29 |
| <i>P. Haouzi, A. Huszczuk, J.P. Gille, B. Chalon, F. Marchal, J.P. Crance and B.J. Whipp (France): Vascular distension in muscles contributes to respiratory control in sheep</i> | 41 |
| <i>K. Ravi, M. Singh and D.B. Julka (India): Properties of rapidly adapting receptors of the airways in monkeys (<i>Macaca mulatta</i>)</i> | 51 |
| <i>K. Tatsumi, C.K. Pickett and J.V. Weil (USA, Japan): Possible role of dopamine in ventilatory acclimatization to high altitude</i> | 63 |
| <i>G.T. Ferguson (USA): Respiratory failure due to altered central drive during inspiratory loading in rabbits</i> | 75 |
| <i>S. Okabe, W. Hida, T. Chonan, T. Izumiya, Y. Kikuchi, T. Takishima and K. Shirato (Japan): Effect of intramedullary procaine injection on tracheal tone and phrenic neurogram</i> | 89 |
| <i>E.H. Schlenker and G.A. Farkas (USA): Endogenous opioids modulate ventilation in the obese Zucker rat</i> | 97 |
| <i>H. Gautier and M. Bonora (France): Ventilatory response to CO_2 and hypoxia during cold exposure in awake rats</i> | 105 |
| <i>E. van Lunteren, H. Vafaie and R.J. Salomon (USA): Comparative effects of aging on pharyngeal and diaphragm muscles</i> | 113 |
| <i>A.-M. Lauzon, G. Dechman, J.G. Martin and J.H.T. Bates (Canada): Time course of histamine-induced bronchoconstriction and its adrenergic and H_2 modulation</i> | 127 |
| <i>A.-M. Lauzon, G. Dechman and J.H.T. Bates (Canada): On the use of the alveolar capsule technique to study bronchoconstriction</i> | 139 |
| <i>M. Brenner, D. Mukai, D. Crook, J. Tran, G. Cheng and A.F. Wilson (USA): Determination of DL_{CO} and cardiac output from expired gas slopes with cardiogenic oscillations</i> | 147 |
| <i>R.A.B. Holland and S.J. Calvert (Australia): Oxygen transport by rabbit embryonic blood: high cooperativity of hemoglobin-oxygen binding</i> | 157 |
| <i>M. Macchione, M. King, G. Lorenzi-Filho, E.T. Guimarães, W.A. Zin, G.M. Böhm and P.H.N. Saldiva (Brazil): Rheological determinants of mucociliary transport in the nose of the rat</i> | 165 |
| <i>L.-Y. Lee, Y.-P. Lou, J.-L. Hong and J.M. Lundberg (Sweden, USA): Cigarette smoke-induced bronchoconstriction and release of tachykinins in guinea pig lungs</i> | 173 |
| <i>D. Papamoschou (USA): Theoretical validation of the respiratory benefits of helium-oxygen mixtures</i> | 183 |
| <i>S. Rietveld (The Netherlands): International Symposium on Dispnoea</i> | |

No. 2, February 1995

| | |
|--|-----|
| <i>J.-P. Savineau, P. Gonzalez De La Fuente and R. Marthan (France): Cellular mechanisms of hypoxia-induced contraction in human and rat pulmonary arteries</i> | 191 |
| <i>H. Mazurek, P. Haouzi, A. Belaguid and F. Marchal (Poland): Persistent increased lung response to methacholine after normobaric hyperoxia in rabbits</i> | 199 |
| <i>S.S.D. Fernando and K.B. Saunders (UK): Ventilatory sensitivity to single breaths of CO_2 around the control point in man</i> | 205 |
| <i>M.L. Ryan, M.S. Hedrick, J. Pizarro and G.E. Bisgard (USA): Effects of carotid body sympathetic denervation on ventilatory acclimatization to hypoxia in the goat</i> | 215 |

| | |
|--|-----|
| <i>J.B. West (USA): Oxygen enrichment of room air to relieve the hypoxia of high altitude</i> | 225 |
| <i>L.A. Maginniss and D.T. Booth (USA): Hemoglobin function in a skin-breathing aquatic salamander, <i>Desmognathus quadramaculatus</i></i> | 233 |
| <i>R.P. Henry, R.G. Boutilier and B.L. Tufts (Canada): Effects of carbonic anhydrase inhibition on the acid base status in lamprey and trout</i> | 241 |
| <i>S.A. Barman, J.L. Ardell and A.E. Taylor (USA): Effect of phorbol myristate acetate-induced lung injury on airway blood flow</i> | 249 |
| <i>G. Ferretti and P.E. di Prampero (Italy): Factors limiting maximal O₂ consumption: effects of acute changes in ventilation</i> | 259 |
| <i>G.H. Visser, E.C. Zeinstra, F.v. Gasteren and A.J. Beintema (Netherlands): Gas conductance and metabolism of shorebird eggs: variation within and between species</i> | 273 |
| <i>Y.-L. Lai, C.-F. Chen, C.-T. Chien, H.-L. Shiao, A.A. Thacker and a.H.-Q. Zhang (USA): Capsaicin pretreatment attenuates chronic hypoxic pulmonary hypertension</i> | 283 |

No. 3, March 1995

| | |
|---|-----|
| <i>N. Marny and J. Durand (Switzerland): Control of inositol phosphate turnover in human airways during histamine stimulation</i> | 291 |
| <i>P. McLoughlin, R.A.F. Linton and D.M. Band (UK): Effects of potassium and lactic acid on chemoreceptor discharge in anaesthetized cats</i> | 303 |
| <i>B.R. Williams Jr., D.F. Boggs and D.L. Kilgore Jr. (USA): Scaling of hypercapnic ventilatory responsiveness in birds and mammals</i> | 313 |
| <i>S. Osborne and J.D. Read (Canada): Diaphragm and phrenic nerve activities during inspiratory loading in anesthetized rabbits</i> | 321 |
| <i>E.v. Lunteren, H. Vafaei and M. Moyer (USA): Changes in pharyngeal respiratory muscle force produced by K⁺ channel blockade</i> | 331 |
| <i>S. Ganeshan, K.E. Rouch and S.J. Lai-Fook (USA): A finite element analysis of the effects of the abdomen on regional lung expansion</i> | 341 |
| <i>J.R. Hartke, C.A. Buffington and J.L. Rojko (USA): Increased insensible water loss in feline retrovirus-infected cats</i> | 355 |
| <i>H.-Q. Zhang, H.-H. Tai and Y.-L. Lai (USA): Age-dependent mechanism in guinea pig bronchoconstriction induced by exsanguination</i> | 361 |
| Author Index | 371 |
| Subject Index | 374 |
| Contents of Volume 99 | 377 |

